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This paper raises many interesting questions about teaching the formation (and solution) of differential equations, i.e. modeling with differential equations. However, the appendices provide stimulation examples of modeling activities (with references) both in population growth and also in a group of activities for epidemics, topography, social interactions, weight of fish, arms race, parasites, and traffic flow.

Keywords; population, model, epidemics, topography, social interactions, weight of fish, arms race, parasites, traffic flow, partial differential equations, differential equation